



# CFP2000 Result

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**Dell**  
**Precision WorkStation 340 (2.4 GHz P4)**

**SPECfp\_rate2000 = 10.2**  
**SPECfp\_rate\_base2000 = 9.92**

SPEC license #: 55 | Tested by: Dell, Round Rock, TX | Test date: Apr-2002 | Hardware Avail: May-2002 | Software Avail: Jun-2001

		Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
18	16	168.wupwise	1	134	13.8	1	133	13.9
14	12	171.swim	1	218	16.5	1	218	16.5
10	8	172.mgrid	1	218	9.58	1	216	9.68
6	4	173.applu	1	228	10.7	1	228	10.7
2		177.mesa	1	141	11.5	1	144	11.3
		178.galgel	1	263	12.8	1	263	12.8
		179.art	1	448	6.73	1	441	6.83
		183.quake	1	146	10.3	1	109	13.9
		187.facerec	1	173	12.7	1	180	12.2
		188.amp	1	399	6.39	1	387	6.59
		189.lucas	1	177	13.1	1	176	13.2
		191.fma3d	1	271	9.00	1	271	9.00
		200.sixtrack	1	251	5.08	1	242	5.27
		301.apsi	1	391	7.71	1	386	7.82

### Hardware

CPU: Intel Pentium 4 (533 MHz system bus)  
 CPU MHz: 2400  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip  
 CPU(s) orderable: 1  
 Parallel: No  
 Primary Cache: 12K(I) micro-ops + 8KB(D) on chip  
 Secondary Cache: 512KB(I+D) on chip  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 2 x 128MB PC800 ECC RDRAM  
 Disk Subsystem: 1 x 10GB Maxtor 7.2K ATA/5  
 Other Hardware:

### Software

Operating System: Windows 2000 Professional (SP2)  
 Compiler: Intel C++ and Fortran Compiler 5.0.1 (020125Z)  
 Microsoft Visual C++ 6.0 (SP5)  
 MicroQuill SmartHeap Library 5.0  
 File System: NTFS  
 System State: Default

## Notes/Tuning Information

```

PORTABILITY
  178.galgel: -FI /F32000000
FEEDBACK-DIRECTED OPTIMIZATION
  FDO: PASS1= /Qprof_gen PASS2= /Qprof_use
BASE TUNING
  C/F77/F90: /Qipo +FDO /QxW /O3
PEAK TUNING
  168.wupwise: /Qipo +FDO /QxW /Qprefetch
  171.swim: /Qipo +FDO /QxW /O3
  172.mgrid: /Qipo +FDO /QaxW /O3
  173.applu: /Qipo +FDO /QxW /O3 /Qscalar_rep- /Qauto
  177.mesa: -Qwp_ipo +FDO -QxW -Qunroll10
  178.galgel: /Qipo +FDO /QxW /O3
  179.art: -Qipo +FDO -QxW -O3 shlw32M.lib
  183.quake: -Qwp_ipo +FDO -QxW -Oa shlw32M.lib
  187.facerec: /Qipo +FDO /QxW /O3 shlw32M.lib
  188.amp: -Qipo +FDO -QaxW -Oa

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## Notes/Tuning Information (Continued)

```
189.lucas: /Qipo /QxW /Qunroll10
191.fma3d: /Qipo +FDO /QxW /O3
200.sixtrack: /Qipo +FDO /QxW
301.apsi: /Qipo /QxW /O3
EXTRA LIBRARIES
shlW32M.lib: MicroQuill SmartHeap Library 5.0
www.microquill.com
LIBRARY ORDERING
187.facerec: libIEPCF90.lib libintrins.lib libF90.lib libqwin.lib
libm.lib shlW32M.lib LIBC.lib libirc.lib OLDNAMES.lib
```